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B1
The thermoplastic polyester urethane (also termed "TPU" hereinafter) consists of hard polyurethane and soft polyester segments, the segments being arranged in alternating sequence. "Soft" denotes segments having a glass transition temperature (T_g) of -20°C or below, in contrast "hard" denotes those having T_g of +30°C or above. The polyester urethane can be of aliphatic or aromatic nature. The proportion of polyurethane segments in the thermoplastic polyester urethane is in this case from 10 to 90% by weight, preferably from 20 to 50% by weight, in each case based on the total weight of the polyester urethane. They generally consist of diisocyanate and diol unites. The diisocyanate unites can be aliphatic, cycloaliphatic or aromatic. Examples of aliphatic diisocyanates are butane 1,4-diisocyanate and hexane 1,6-diisocyanate. Isophorone diisocyanate (= 3-isocyanatomethyl-3,5,5-trimethylcyclohexane isocyanate) represents a cycloaliphatic diisocyanate. Toluene 2,4-diisocyanate and 2,6-diisocyanate, diphenylmethane 2,2'-diisocyanate, 2,4'-diisocyanate, 2,6'-diisocyanate and 4,4'-diisocyanate, and naphthalene 1,5-diisocyanate are preferred aromatic diisocyanates.

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B2
The film can further contain fillers, either instead of the fibers or additionally. Suitable fillers are, for example, calcium carbonate, talc, kaolin (especially kaolin/quartz mixtures, known as "Neuburg Silica"), titanium dioxide, silicates (especially wollastonite, an inosilicate), anhydrite (= calcium sulfate), particles of cellulose or native starch (especially those having a particle diameter of 15 μm or less). The median diameter of the filler particles (d_{pF}) is in the range from 0.1 to 50 μm , preferably from 0.1 to 20 μm , particularly preferably from 1 to 5 μm . Their content can be up to 30% by weight, but preferably it is from 2 to 15% by weight, particularly preferably from 4 to 10% by weight, in each case based on the total weight of the thermoplastic mixture.

In the Claims

B3
1. A film produced from a thermoplastic mixture which comprises: a) thermoplastic starch, a thermoplastic starch derivative or both a thermoplastic starch and thermoplastic starch derivative, and b) at least one polyester urethane, with the weight ratio a):b) being in